

EN



HS100

**Sterile Protective Gloves with Shielding Effect
Against X-Ray Radiation**

MAVIG

HS100

Efficient Protection for Your Hands

MAVIG's sterile gloves with X-ray radiation shielding now offer an optimized protection for medical staff.

A combination of traditionally contradicting properties has been achieved with the development of these gloves: Great shielding, great elasticity, great sensitivity.

To drastically lower the radiation dose equivalent for medical personal is a must, and not just to the permissible levels of the effective dose! The idea of optimizing radiation protection demands that every possible measure has to be taken in order to minimize the amount of radiation exposure.

MAVIG offers with HS100 – X-ray-absorbing, sterile gloves – an efficient way for the reduction of scattered radiation exposure.

Remarkable is the achieved protection factor of 2 when the gloves are applied in the range of scatter radiation (X-ray tube voltage 60 - 80 kV). The > 50% reduction effectively aids to minimize health risks.

Excellent product characteristics and the optimized fit easily provide a better protection.

§ Legal Regulatory in between the European Union

Sterile gloves for protection against X-rays are used as personal protective equipment (PPE), while classified as a medical device (MD). Thus, the CE-conformity to both relevant certifications according PPE regulation (EU) 2016/425 and 93/42/EEC are mandatory for these products.

With MAVIG's HS100 you are on the safe side:

- ▶ Lead free
- ▶ Non-toxic
- ▶ Powder-free
- ▶ Low-protein natural rubber
- ▶ Sterile
- ▶ Excellent gripping ability
- ▶ High elasticity
- ▶ Great touch sensitivity
- ▶ Extreme tear-resistant
- ▶ Available in multiple sizes

Our gloves are certified correctly and CE-compliant.



The application in the range of the primary radiation can be counter-productive, if an automated dosage regulator is activated. The automated dosage regulator must be deactivated, if the intended use of the gloves are in the area of the primary radiation.



HS100: Safety. Efficiency. Flexibility.



Versatile Features

The product is classified as a powder-free sterile glove, which features the additional benefit of X-ray protection properties on top of its core material characteristics of impermeability and protection against chemicals and microorganisms.



Optimised for the Application

Great elasticity in combination with an excellent anatomical fit allows for optimal working conditions, bringing it in the same category of high quality surgical gloves, while additionally offering efficient protection against secondary X-ray radiation (scattered radiation). The product convinces with its high touch-sensitivity and dexterity. The micro-textured surface provides a secure grip, even in moist conditions. The soft, stretchable material with its anatomical form prevents fatigue and provides optimal ergonomic features.



Lead Free

The product is intended for the shielding against secondary radiation and provides efficient protection. Lead free, metal oxides achieve the great shielding effect of our gloves.



Low-Protein Latex Glove

The unique quality of the MAVIG gloves HS100 are enabled by the usage of elastic natural rubber. Via the manufacturing process it is ensured that the protein content is kept at a minimum level. Water-soluble, allergenic proteins are extracted from the latex so that we are able to refer to our product as low-protein latex gloves.

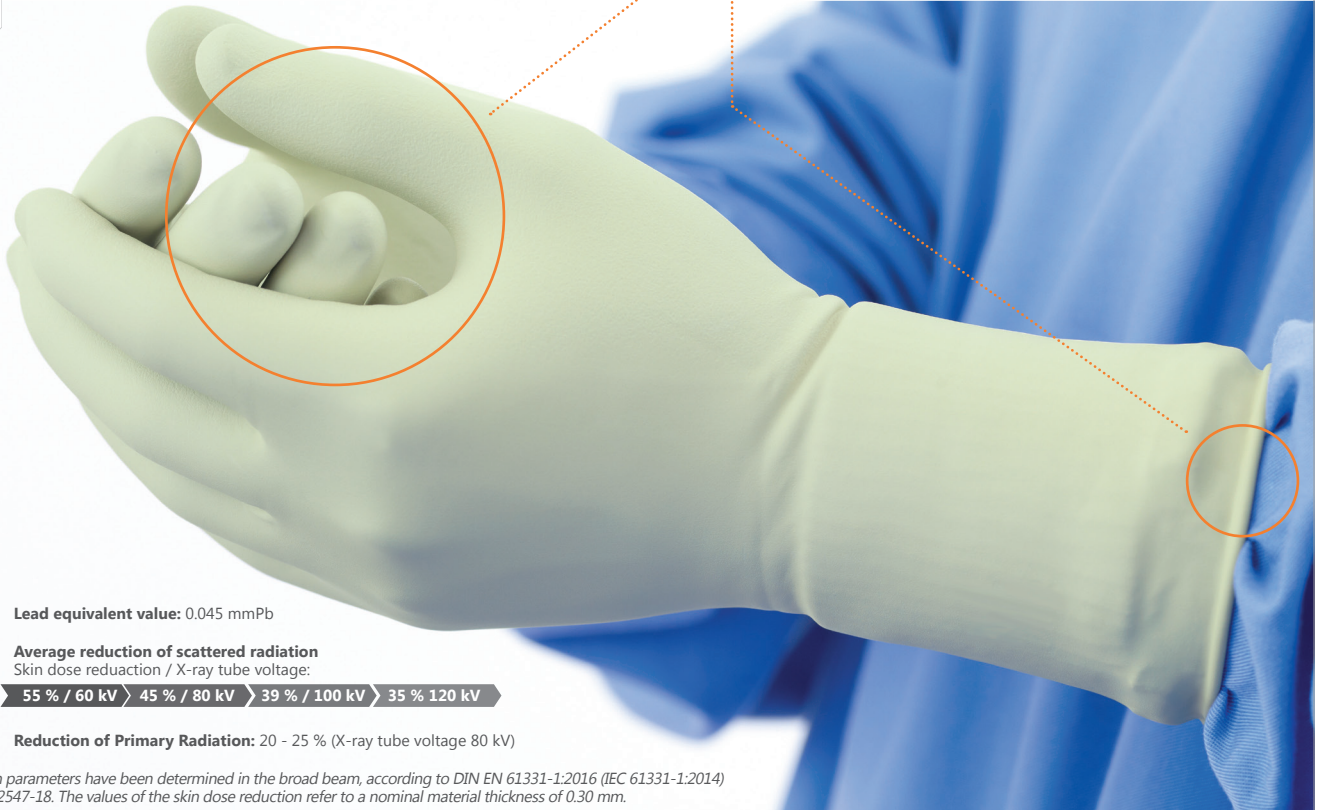


Sales units are made up of convenient dispenser boxes, each containing 5 pairs of gloves of the same size. Each pair is securely stored in a sterile peelpack with an additional inlay, assuring that the gloves use can be applied in a sterile condition.

This sterile product is intended for single use.

The gloves are easy to put on and are especially tear-resistant due to their elasticity.

In addition, the rolled edge counteracts tearing when pulled over.



Measured Values

Lead equivalent value: 0.045 mmPb

Average reduction of scattered radiation

Skin dose reduction / X-ray tube voltage:

55 % / 60 kV > 45 % / 80 kV > 39 % / 100 kV > 35 % / 120 kV

Reduction of Primary Radiation: 20 - 25 % (X-ray tube voltage 80 kV)

* The reduction parameters have been determined in the broad beam, according to DIN EN 61331-1:2016 (IEC 61331-1:2014) and ASTM F 2547-18. The values of the skin dose reduction refer to a nominal material thickness of 0.30 mm.

Sizes and Order Numbers

Size 6.5 – HS10065
Size 8.0 – HS10080

Size 7.0 – HS10070
Size 8.5 – HS10085

Size 7.5 – HS10075
Size 9.0 – HS10090

Legislation, Standards

DIN 6815:2021-06 (Regulations for the control of radiation protection of medical X-ray equipment up to 300 kV) This regulation recommends the usage of surgical gloves with radiation protective properties as part of protective clothing for medical staff participating in Angio/DSA, cardiac catheter examinations, and intrasurgical X-ray examinations.

SV-RL (Guideline for technical control of X-ray equipment and license required sources of scattered radiation – guideline for authorized expert inspections according to X-ray regulation) The guideline states in inspections for mobile C-bows, C-bows suspended from ceiling columns in operation rooms, as well as for combined radiography and radioscopy X-ray equipment, including for therapy purposes that surgical gloves with radiation shielding properties are a part of appropriate personal protection equipment.

DIN EN 61331-3:2016-09 (Radiation protection in the field of medical X-ray diagnostics) One chapter has its focus on radiation protective gloves, which are recommended to be worn by the operator during radiological examinations or interventional applications for as long as the hands are located in the primary beam or in an area of intensive scattered radiation.



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